Data Sheet

We make sure

FUJITSU COMPUTERS SIEMENS

ESPRIMO P35xx
Your flexible economy PC

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The ESPRIMO P35xx is the gateway to professional computing. The Microtower extends the Fujitsu Siemens Computers' Value Line product portfolio with an additional form factor.

The basic professional PC is the ultimate balance of valuable performance at very attractive prices. The ESPRIMO P35xx is aimed towards the large enterprises that are looking for a price-conscious professional PC with longer lifecycle.

- Reliable iG31 chipset with Intel Core2 Duo support
- Excellent resolution with on board graphics
- High quality and function stability
- Convenient front access to USB and audio

Windows Vista Business

		P3510
Mainboard		
Chipset		iG31
Mainboard Number		D2750
Mainboard form factor		µBTX
Processor socket		LGA 775
Front side bus resp. system bus support		800/1066/1333 MHz
BIOS version		Phoenix Vers. 6.0
Flash EPROM BIOS update by software		x
Recovery BIOS		x
Processor		
Intel® Core™ 2 Quad Q6xxx		up to Q6600
Second level cache		6MB
Front side bus (FSB)		1333MHz
Intel® Core™2 Duo E8xxx		up to E8500
Second level cache		6MB
Front side bus (FSB)		1333MHz
Intel® Core™2 Duo E6xxx		-
Second level cache		-
Front side bus (FSB)		-
Intel® Core™2 Duo E4xxx		up to E4600
Second level cache		2MB
Front side bus (FSB)		800MHz
Intel® Pentium™ Dual core E2xxx		up to E2200
Second level cache		1MB
Front side bus (FSB)		800MHz
Intel® Celeron		up to 440
Second level cache		512 KB
Front side bus (FSB)		800 MHz
Memory		
Memory support		667/800 MHz
DIMM slots		2
dual channel support		x
Max. capacity DDR2		4GB
for dual channel performance, a minimum of 2 memory modules have to be ordered. Capacity per channel has to be the same		
Interfaces		
Mouse/keyboard (PS2)		x/x
Serial (9pi, 16 byte FIFO, 16550 compatible)		x
Second serial port		-
Parallel (25pin with EPP and ECP)		optional
Display (15 pin, VGA)		x
DVI		optional
Micro (mono) rear		x
Line in (stereo) rear		x
Line out (stereo) rear		x
Micro (mono) front		x
Headphone in front		x
LAN RJ45		x
Universal Serial Bus (USB 2.0) in total		8
therefore	USB rear	4
	USB front	2
	USB internal	2, optional rear
Interfaces add on cards		
Dual port RS232 , serial		optional
eSATA cable		-
Parallel cable (25pin with EPP and ECP)		optional
Multicardreader		optional
Input device/components		
USB wheel mouse		-
Optical USB wheel mouse		x
Optical USB/PS2 Tilt wheel mouse		optional
LAN on board		
10/100/1000 MBit/s		Realtek RTL8111C
Wake up on LAN (WOL)		x
PXE		x
BootP		-
LAN add on cards		
Gigabit Ethernet, SysKonnect		optional
Audio on board		
Internal speaker supports audio playback		no, buzzer only
High definition audio		Realtek ALC262
I/O controller onboard		
Serial ATA		3
Serial ATA II / 3GBit		x/x
Drive bays		4
internal 3,5"		1
external 3,5"		1
external 5,25"		2
Floppy disk drive 1.44 MB standard		optional
Hard disk drives		
Serial ATA II 80 / 160 / 250 / 500 GB		x/x/x/x
supporting NCQ and 3GBit (if chipset support is available)		
Optical drives (SATA)		
16/48-speed DVD ROM		optional
DVD SuperMulti writer double layer support		optional

Slots	
PCI	2 (230 mm / 312 mm)
PCI Express x16	1 (230mm)
PCI Express x1	-
Graphic on board	Intel® GMA3100
Shared memory depending on driver	up to 256 MB
3D SW Interace	Direct X9
Resolution (color depth up to 32 Bit/pixel)	
1024 x 768 (recommended / max*)	85 / 120 Hz
1280 x 1024 (recommended / max*)	85 / 120 Hz
1600 x 1200 (recommended / max*)	85 Hz
1440 x 900 widescreen TFT (VGA / DVI)	x / x
1680 x 1050 widescreen TFT (VGA / DVI)	x / x
1920 x 1200 widescreen TFT (VGA / DVI)	x / x
* refresh rates reflect the max. graphics capabilities. Video quality can be deteriorated when using maximum settings. For TFT we recommend to use 60Hz.	
Graphic add on cards	
NVIDIA GeForce 8400 256 MB, LP (DirectX 10)	-
NVIDIA GeForce FX 7300LE 128MB, LP (DirectX 9)	-
NVIDIA GeForce FX 7300LE 256MB, LP (DirectX 9)	-
NVIDIA Quadro NVS 290 256MB, LP (DirectX10)	-
NVIDIA GeForce FX 7300LE 128MB (DirectX 9)	-
NVIDIA GeForce FX 7300LE 256MB (DirectX 9)	optional
NVIDIA Quadro NVS 290 256MB (DirectX10)	optional
DVI adapter incl. Dual Monitoring (DVI/VGA)	optional
Dual-DVI adapter incl. Dual Monitoring (DVI/DVI)	-
Electrical values	
Rated voltage range, AC	100 - 127 / 200 - 240 V
Rated frequency range	50-60 Hz
Operating voltage range, AC	90 - 137 / 180 - 264 V
Operating line frequency range	47-63 Hz
Max. output of power supply	300 W
PFC (power factor correction)	passive
Monitor outlet	no
Power consumption for standard configuration (W) / CPU (1GB memory, HD, ODD, FDD, Operating system)	Celeron 440 E8500 Q9450
Maximum (S0, running app. CD in use)	68W 89W 83W
Average (S0, running OS, Idle mode)	53W 54W 51W
Stand by (S3, energy saving modus, WOL enabaled)	4,6W
Minimum (ACPI status S5, soft off, **WOL enabled**)	3,8W
Heat dissipation (kJ/h / BTU/h) / CPU	E8500
Maximum (S0, running app. CD in use)	320kJ/h / 304BTU/h
Average (S0, running OS, Idle mode)	194kJ/h / 184BTU/h
Stand by (S3, energy saving modus, WOL enabled)	16,6kJ/h / 15,7BTU/h
Minimum (ACPI status S5, soft off, **WOL enabled**)	13,7kJ/h / 13,0BTU/h
1W = 3,6kJ/h, 1W = 3,4121BTU/h	
Noise for standard configuration (HDD, ODD, FDD)	E8500
A weighted sound **power level Lwad** (in B) / Workplace related A-weighted sound **pressure level LpAm** (in dB(A)), (bystander position) (ISO9296)	
Operation mode 1: ODD load (Blue angel requirement)	5,0B / 36dB
Operation mode 2: HDD load (Blue angel requirement)	4,3B / 28dB
Operation mode 3: CPU 90% load (Blue angel requirement)	4,3B / 28dB
Operation mode 4: High load	4,4B / 29dB
Operation mode 5: Office applications	4,3B / 28dB
Idle mode (Blue angel requirement)	4,1B / 26dB
Ambient temperature (IEC 721)	15°C'- 35°C
Dimensions (H x W x D)	372 x 202 x 376 mm
Operating position (vertical/horizontal)	x /-
Weight (depending on config)	approx. 11 kg
Approvals and standards	
CE certification according to EU Directives 89/336/EEC (EMC) and 06/95/EC (Product safety)	x
Ergonomics ISO9241 (GS mark)	x
Product safety IEC60950, EN60950,	x
Electromagn. compatibility EN55022/B, EN55024, EN61000-3-2/3	x
Environmental compatibility	
RoHS (Restriction of hazardous substances)	x
WEEE (Waste electrical and electronical equipment)	x
Energy Star	-
Blue Angel	-
Nordic Swan	-
Software (compatibility / preinstalled)	
Microsoft Windows 2000	- / -
Microsoft Windows XP Home	x / -
Microsoft Windows XP Professional	x / opt (TwinLoad)
Microsoft Windows XP Professional x64 Edition	- / -
Microsoft Windows Vista® 32bit	x / optional

Microsoft Windows Vista® 64bit	- / -
Microsoft Windows Vista® Basic Logo (min. 512MB RAM necessary)	x
Microsoft Windows Vista® Premium Logo (min. 1GB RAM and Dual Channel memory necessary)	x
Linux certified	x
Additional Software	
Recovery DVD (Microsoft Windows XP / Vista)	optional
Drivers and Utility DVD (DUDVD) (Microsoft Windows XP / Vista)	x / optional
Others	
Spare part availability	5 years
Compatibility (references)	
Microsoft Operating Systems (HCT / HCL entry)	x
PC 2001, DMI 2.0, WMI 1.5, USB 2.0	x
Manageability	
DeskView 10.x client management including:	
On/Offline remote client management	-
Detailed system inventory management and reports	-
BIOS Management	-
Remote power management	-
System notifications	-
Advanced alerts (ASF implementation)	-
Security Remote Control	-
DeskView Helpdesk Integration	-
DeskUpdate Driver management	-
DeskView Migrate	optional
DeskView Control	optional
PXE 2.1 Boot code	x
BootP Boot Code including Bootmanage Administrator Software	-
Wake up from S5 (off mode)	x
Intrusion switch	-
Security	
Physical Security implemented in the cabinet	
Prepared for Kensington lock, eye for padlock	x
Integrated cabinet lock	-
System Security	
Boot sector virus protection	x
Write protect option for the Flash EPROM	-
Embedded security (TPM1.2)	-
Boot protection for floppy disk/CD drive and write protection for floppy disk drive	-
Control of external interfaces	x
User Security	
User and supervisor BIOS password	x
SystemLock BIOS SmartCard Security	-
SystemLock 2 BIOS SmartCard Security	-
Hard disk password	-
Access protection via external SmartCard reader	optional
Access protection via internal SmartCard reader	-
Fujitsu Siemens Computers MEMORYBIRD BIOS lock	-
Serviceability	
FlexySlot	-
EasyFix	-
EasyChange (for HDD / for optical drives)	-
EasyPull	-
Packaging information	
Dimension outside (H x W x D) in mm	500x290x540
Max. quantity/ pallet	24
Material/ weight in g	
Carton	1270g
EPS / PS	210g
PE	appr. 60g
printed user documentation is bleached in chlorine free process	
Logos	

Recycling information/ End of life service information
product is designed for easy recyclability
information about take back and recycling can be found here
http://www.fujitsu-siemens.com/recycling
information about environmental initiatives, policies, programs and goals can be found here
http://www.fujitsu-siemens.com/aboutus
Product material information
for all restricted substances see the Environmental guideline FSC03230
The data reflects laboratory performance only. The customer configuration may perform differently, depending on the software, components and peripherals connected.

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